



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/790,268
Source: IFW
Date Processed by STIC: 3/11/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/790,768</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional , please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence; or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." <u>Please explain source of genetic material in <220> to <223> section.</u> (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

RAW SEQUENCE LISTING

DATE: 03/11/2004

PATENT APPLICATION: US/10/790,768

TIME: 07:36:47

Input Set : A:\Sequence Listing for 002877.00028.txt

Output Set: N:\CRF4\03112004\J790768.raw

3 <110> APPLICANT: Karas, Michael
 5 <120> TITLE OF INVENTION: Intracellular delivery of small molecules, proteins, and nucleic acids
 7 <130> FILE REFERENCE: 002877.00028
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/790,768
 C--> 9 <141> CURRENT FILING DATE: 2004-03-03
 9 <150> PRIOR APPLICATION NUMBER: US 60/451,243
 10 <151> PRIOR FILING DATE: 2003-03-04
 12 <160> NUMBER OF SEQ ID NOS: 25
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 12
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Artificial Sequence
 W--> 20 <220> FEATURE:
 21 <223> OTHER INFORMATION: Artificial Sequence
 W--> 22 <400> SEQUENCE: 1
 23 Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
 24 1 5 10
 26 <210> SEQ ID NO: 2
 27 <211> LENGTH: 15
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Artificial Sequence
 W--> 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: Artificial Sequence
 W--> 32 <400> SEQUENCE: 2
 33 Lys Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
 34 1 5 10 15
 36 <210> SEQ ID NO: 3
 37 <211> LENGTH: 6
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Artificial Sequence
 W--> 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: Artificial Sequence
 W--> 42 <400> SEQUENCE: 3
 43 Lys Lys Lys Arg Lys Val
 44 1 5
 46 <210> SEQ ID NO: 4
 47 <211> LENGTH: 21
 48 <212> TYPE: PRT
 49 <213> ORGANISM: Artificial Sequence
 W--> 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: Artificial Sequence
 W--> 52 <400> SEQUENCE: 4

pg 1-5
 Does Not Comply
 Corrected Diskette Needed

insufficient response - give source of
 genetic material
 (see item 11 on
 Error Summary
 Sheet)

same error

same

RAW SEQUENCE LISTING

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TIME: 07:36:47

Input Set : A:\Sequence Listing for 002877.00028.txt

Output Set: N:\CRF4\03112004\J790768.raw

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53 Lys Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg Lys
54 1          5          10          15
55 Lys Lys Arg Lys Val
56          20
58 <210> SEQ ID NO: 5
59 <211> LENGTH: 27
60 <212> TYPE: PRT
61 <213> ORGANISM: Artificial Sequence
W--> 62 <220> FEATURE:
63 <223> OTHER INFORMATION: Artificial Sequence
W--> 64 <400> SEQUENCE: 5
65 Lys Gly Gly Lys Lys Lys Arg Lys Val Arg Lys Met Leu Lys Ser Thr
66 1          5          10          15
67 Arg Arg Gln Arg Arg Lys Lys Lys Arg Lys Val
68          20          25
70 <210> SEQ ID NO: 6
71 <211> LENGTH: 14
72 <212> TYPE: PRT
73 <213> ORGANISM: Artificial Sequence
W--> 74 <220> FEATURE:
75 <223> OTHER INFORMATION: Artificial Sequence
W--> 76 <220> FEATURE:
77 <221> NAME/KEY: MISC_FEATURE
78 <222> LOCATION: (1)..(1)
79 <223> OTHER INFORMATION: Biotin
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81 Gly Gly Ala Arg Pro Leu Glu His Gly Ser Asp Lys Ala Thr
82 1          5          10
84 <210> SEQ ID NO: 7
85 <211> LENGTH: 14
86 <212> TYPE: PRT
87 <213> ORGANISM: Artificial Sequence
W--> 88 <220> FEATURE:
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91 <221> NAME/KEY: MISC_FEATURE
92 <222> LOCATION: (1)..(1)
93 <223> OTHER INFORMATION: Biotin
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95 Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
96 1          5          10
98 <210> SEQ ID NO: 8
99 <211> LENGTH: 14
100 <212> TYPE: PRT
101 <213> ORGANISM: Artificial Sequence
W--> 102 <220> FEATURE:
103 <223> OTHER INFORMATION: Artificial Sequence
W--> 104 <220> FEATURE:
105 <221> NAME/KEY: MISC_FEATURE

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RAW SEQUENCE LISTING

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Input Set : A:\Sequence Listing for 002877.00028.txt

Output Set: N:\CRF4\03112004\J790768.raw

106 <222> LOCATION: (14)..(14)
107 <223> OTHER INFORMATION: Biotin
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110 1 5 10
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113 <211> LENGTH: 14
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial Sequence
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W--> 118 <220> FEATURE:
119 <221> NAME/KEY: MISC_FEATURE
120 <222> LOCATION: (1)..(1)
121 <223> OTHER INFORMATION: Biotin
W--> 122 <400> SEQUENCE: 9
123 Gly Gly Gly Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
124 1 5 10
126 <210> SEQ ID NO: 10
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129 <213> ORGANISM: Artificial Sequence
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133 <221> NAME/KEY: MISC_FEATURE
134 <222> LOCATION: (14)..(14)
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137 Tyr Ala Arg Ala Ala Arg Gln Ala Arg Ala Gly Gly Lys
138 1 5 10
140 <210> SEQ ID NO: 11
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142 <212> TYPE: PRT
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148 <222> LOCATION: (15)..(15)
149 <223> OTHER INFORMATION: Biotin
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151 Arg Arg Gln Arg Arg Thr Ser Lys Leu Met Lys Arg Gly Gly Lys
152 1 5 10 15
154 <210> SEQ ID NO: 12
155 <211> LENGTH: 15
156 <212> TYPE: PRT
157 <213> ORGANISM: Artificial Sequence
W--> 158 <220> FEATURE:

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DATE: 03/11/2004

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TIME: 07:36:47

Input Set : A:\Sequence Listing for 002877.00028.txt

Output Set: N:\CRF4\03112004\J790768.raw

159 <223> OTHER INFORMATION: Artificial Sequence

W--> 160 <220> FEATURE:

161 <221> NAME/KEY: MISC_FEATURE

162 <222> LOCATION: (1)..(1)

163 <223> OTHER INFORMATION: Biotin

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166 1 5 10 15

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171 <213> ORGANISM: Artificial Sequence

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173 <223> OTHER INFORMATION: Artificial Sequence

W--> 174 <220> FEATURE:

175 <221> NAME/KEY: MISC_FEATURE

176 <222> LOCATION: (1)..(1)

177 <223> OTHER INFORMATION: Biotin

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180 1 5 10

182 <210> SEQ ID NO: 14

183 <211> LENGTH: 15

184 <212> TYPE: PRT

185 <213> ORGANISM: Artificial Sequence

W--> 186 <220> FEATURE:

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W--> 188 <220> FEATURE:

189 <221> NAME/KEY: MISC_FEATURE

190 <222> LOCATION: (1)..(1)

191 <223> OTHER INFORMATION: Biotin

W--> 192 <400> SEQUENCE: 14

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194 1 5 10 15

196 <210> SEQ ID NO: 15

197 <211> LENGTH: 14

198 <212> TYPE: PRT

199 <213> ORGANISM: Artificial Sequence

W--> 200 <220> FEATURE:

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W--> 202 <220> FEATURE:

203 <221> NAME/KEY: MISC_FEATURE

204 <222> LOCATION: (1)..(1)

205 <223> OTHER INFORMATION: Biotin

W--> 206 <400> SEQUENCE: 15

207 Gly Gly Gly Arg Arg Gln Arg Arg Lys Lys Arg Gly Tyr

208 1 5 10

210 <210> SEQ ID NO: 16

211 <211> LENGTH: 15

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DATE: 03/11/2004

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TIME: 07:36:47

Input Set : A:\Sequence Listing for 002877.00028.txt

Output Set: N:\CRF4\03112004\J790768.raw

212 <212> TYPE: PRT
 213 <213> ORGANISM: Artificial Sequence
 W--> 214 <220> FEATURE:
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 218 <222> LOCATION: (1)..(1)
 219 <223> OTHER INFORMATION: Biotin
 W--> 220 <400> SEQUENCE: 16
 221 Gly Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
 222 1 5 10 15
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 W--> 228 <220> FEATURE:
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 233 <223> OTHER INFORMATION: Biotin
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 240 <212> TYPE: PRT
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 W--> 242 <220> FEATURE:
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 245 <221> NAME/KEY: MISC_FEATURE
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 247 <223> OTHER INFORMATION: Biotin
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 252 Gln Arg Arg
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 258 <213> ORGANISM: Artificial Sequence
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 263 <222> LOCATION: (1)..(1)
 264 <223> OTHER INFORMATION: Biotin
 W--> 265 <400> SEQUENCE: 19

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VERIFICATION SUMMARY

DATE: 03/11/2004

PATENT APPLICATION: US/10/790,768

TIME: 07:36:48

Input Set : A:\Sequence Listing for 002877.00028.txt

Output Set: N:\CRF4\03112004\J790768.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:20 M:283 W: Missing Blank Line separator, <220> field identifier
L:22 M:283 W: Missing Blank Line separator, <400> field identifier
L:30 M:283 W: Missing Blank Line separator, <220> field identifier
L:32 M:283 W: Missing Blank Line separator, <400> field identifier
L:40 M:283 W: Missing Blank Line separator, <220> field identifier
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L:52 M:283 W: Missing Blank Line separator, <400> field identifier
L:62 M:283 W: Missing Blank Line separator, <220> field identifier
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L:76 M:283 W: Missing Blank Line separator, <220> field identifier
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L:88 M:283 W: Missing Blank Line separator, <220> field identifier
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L:202 M:283 W: Missing Blank Line separator, <220> field identifier
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L:214 M:283 W: Missing Blank Line separator, <220> field identifier
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L:220 M:283 W: Missing Blank Line separator, <400> field identifier
L:228 M:283 W: Missing Blank Line separator, <220> field identifier
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VERIFICATION SUMMARY

DATE: 03/11/2004

PATENT APPLICATION: US/10/790,768

TIME: 07:36:48

Input Set : A:\Sequence Listing for 002877.00028.txt

Output Set: N:\CRF4\03112004\J790768.raw

L:242 M:283 W: Missing Blank Line separator, <220> field identifier
L:244 M:283 W: Missing Blank Line separator, <220> field identifier
L:248 M:283 W: Missing Blank Line separator, <400> field identifier
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